

1 **UNITED KINGDOM CONFORMITY ASSESSMENT**
2 **UK TYPE EXAMINATION CERTIFICATE**

3 **Product Intended for use in Potentially Explosive Atmospheres**
4 **UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1**

5 Certificate Number: **ExVeritas 23 UKEX 1532** Issue: **0**
6 Product: Hammer union pressure sensor HUS-ZXXXXXX or HUT-ZXXXXXX
7 Manufacturer: Hohner Automation Ltd
8 Address: Units 14-16, Whitegate Industrial Estate, Wrexham, LL13 8UG

9 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 ExVeritas Limited Approved Body number 2585, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with:


EN IEC 60079-0:2018 EN 60079-11:2012

Except in respect of those requirements listed at section 16 of the schedule to this certificate.

10 If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the equipment shall include the following:

 II 1G Ex ia IIC T4 Ga
Ta = -40°C to +60°C

The device may be marked with any temperature within this range.



No. 8613

On behalf of ExVeritas



S Clarke CEng MSc FIET
Managing Director

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The status of this certificate can be verified at www.exveritas.com

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Schedule

13 Description of Product

The “Hammer union pressure sensor” (HUS-ZXXXXXX or HUT-ZXXXXXX) is a pressure sensor intended for static installation in explosive gas atmospheres classified as Category 1G. It contains a pressure sensing element and complimentary circuitry. The device translates the sensor output to a 4-20 mA output signal which can be input into other industrial standard applications (such as a programmable logic controller). The electronics are housed in a metallic enclosure which is welded together to provide a hermetic seal when filled with encapsulating resin.

The device can be manufactured to have a hermetically sealed connector or a cable to accommodate field wiring.

The part number includes the following disambiguation:

HUS-ZXXXXXX or HUT-ZXXXXXX

Where:

- HUS/HUT = Product type identification
- Z = one of the following types:
 - A or C for connector versions (see table 1 & 2)
 - B or D permanently connected cable versions (see table 1 & 2)
- X = Optional Alphanumeric characters not affecting certification

The device is intended to be powered via a linear intrinsically safe barrier with the following entity parameters:

Parameter	Value
Ui	30 V
Ii	100 mA
Pi	0.75 W
Ci	31 nF
Li	12 µH
C/m	200 pF/m
L/m	1 µH/m

Or

Parameter	Value
Ui	30 V
Ii	100 mA
Pi	0.75 W
Ci	31 nF
Li	12 µH
C/m	100 pF/m
L/m	1 µH/m

When in service the device only uses the pins PWR+/SIG+ (A) and PWR-/SIG- (B). The programming pins are not used when the device is commissioned.

14 Descriptive Documents

14.1 Associated Report and Certificate History:

Report	Date	Issue	Comment
R4404/A/1	15/06/2023	0	Initial issue of the Prime Certificate

14.2 Compliance Drawings:

Title	Drawing number	Revision	Date
HMRU-PCB-COM-001-02 Gerber	HMRU-PCB-COM-001-02 Gerber	2	27/01/2022
HMRU-PCB-IDT-001-03 Gerbers	HMRU-PCB-IDT-001-03 Gerbers	3	18/05/2023
Hammer Union BOM	HMRU-BOM-001-03.pdf	3	12/06/2023
Hammer Union Compensation PCB	HMRU-PCB-COM-001-02.pdf	2	18/05/2023
Hammer Union Amplifier PCB	HMRU-PCB-IDT-001-03.pdf	3	08/06/2023
HUS/HUT Pressure Sensor Label (UKCA, IECEx & ATEX)	HUX-LB-001-02.pdf	2	19/06/2023
General Assembly for Hammer Union Sensor - HUT	RM-AS-002-01.pdf	1	20/06/2023
General Assembly for Hammer Union Sensor - HUS	RM-AS-001-02.pdf	2	19/06/2023
Cage for Hammer Union	RM-CG-001-01.pdf	1	16/06/2023

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Title	Drawing number	Revision	Date
Elastic Element - HUS	RM-EL-001-02.pdf	2	18/05/2023
Elastic Element - HUT	RM-EL-002-01.pdf	1	18/05/2023
Assembly & Epoxy Location for Elastic Elements	RM-EP-001-01.pdf	1	18/05/2023
Hammer Union 3D Printed Insert (Block Version)	RM-IN-001-01.pdf	1	20/06/2023
Replaceable Connector Standoff	RM-RB-001-01.pdf	1	18/05/2023
Standoff for Connector and PCB	RM-SC-001-02.pdf	2	19/05/2023
Standoff for Replaceable Block and PCB	RM-SC-002-01.pdf	1	18/05/2023
Hammer Union 3D Printed Spiral	RM-SP-001-01.pdf	1	20/06/2023
Hammer Union 3D Printed Spiral (block version)	RM-SP-002-01.pdf	1	20/06/2023
Top section	RM-TS-001-02.pdf	2	18/05/2023
Top section (tube version)	RM-TS-002-01.pdf	1	18/05/2023
User Instructions HUS-ZXXXXXX	User Instructions HUS-ZXXXXXX.pdf	2	June 2023

15 Conditions of certification

15.1 Special Conditions for Safe Use

- None

15.2 Routine tests

- None

16 Essential Health and Safety Requirements (Regulations Schedule 1)

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform ExVeritas of any modifications to the design of the product described by this schedule.

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